

FORM PTO-1590 (Modified) (REV 11-98)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 5387-3	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.5) 09/509326	
INTERNATIONAL APPLICATION NO. PCT/KR00/00125		INTERNATIONAL FILING DATE 16 February 2000 (16.02.00)		PRIORITY DATE CLAIMED 24 February 1999 (24.02.99)	
TITLE OF INVENTION AUTOMATIC ORDERING METHOD AND SYSTEM FOR TRADING OF STOCK, BOND, ITEM, FUTURE INDEX, OPTION, INDEX AND SO ON					
APPLICANT(S) FOR DO/EO/US Min-Ho CHA					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). 4. <input type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c) (2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). 7. <input type="checkbox"/> A copy of the International Search Report (PCT/ISA/210). 8. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input checked="" type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 9. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 10. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 					
Items 13 to 20 below concern document(s) or information included:					
<ol style="list-style-type: none"> 13. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. <input type="checkbox"/> A FIRST preliminary amendment. 16. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 17. <input type="checkbox"/> A substitute specification. 18. <input type="checkbox"/> A change of power of attorney and/or address letter. 19. <input checked="" type="checkbox"/> Certificate of Mailing by Express Mail 20. <input type="checkbox"/> Other items or information: 					

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U.S. APPLICATION NO. (IF KNOWN) SEE 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER	
097509326		PCT/KR00/00125		5387-3	

21. The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) : <input checked="" type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$970.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$840.00 <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$690.00 <input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$670.00 <input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$96.00 ENTER APPROPRIATE BASIC FEE AMOUNT =				\$970.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)). <input type="checkbox"/> 20 <input type="checkbox"/> 30				\$0.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	13 - 20 =	0	x \$18.00	\$0.00	
Independent claims	4 - 3 =	1	x \$78.00	\$78.00	
Multiple Dependent Claims (check if applicable). <input checked="" type="checkbox"/>				\$260.00	
TOTAL OF ABOVE CALCULATIONS =				\$1,308.00	
Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable). <input checked="" type="checkbox"/>				\$654.00	
SUBTOTAL =				\$654.00	
Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)). <input type="checkbox"/> 20 <input type="checkbox"/> 30 +				\$0.00	
TOTAL NATIONAL FEE =				\$654.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input type="checkbox"/>				\$0.00	
TOTAL FEES ENCLOSED =				\$654.00	
				Amount to be: refunded	\$
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☒ A check in the amount of **654.00** to cover the above fees is enclosed.

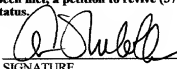
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NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

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28,881
 REGISTRATION NUMBER
24 MARCH 2000
 DATE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant or Patentee:

Serial or Patent No.:

Filed or Issued:

For:

DECLARATION CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) and 1.27 (b)) INDEPENDENT INVENTOR

As a below-named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled

described in the

☒ specification filed herewith

☐ application serial no. _____, filed _____

☐ patent no. _____, issued _____

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

☒ no such person, concern, or organization

☐ persons, concerns or organizations listed below*

*NOTE: Separate statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

FULL NAME:

ADDRESS:

☐ individual ☐ small business concern ☐ nonprofit organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

Full name of sole or first inventor: Min-Ho Cha

Inventor's signature: _____

March 6, 2000
(Date)

Full name of second co-inventor:

Inventor's signature: _____

(Date)

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7/PRTS

09/509326
430 Rec'd PCT/PTO 24 MAR 2000

AUTOMATIC ORDERING METHOD AND SYSTEM FOR TRADING OF STOCK,
BOND, ITEM, FUTURE INDEX, OPTION, INDEX, CURRENT AND SO ON

BACKGROUND OF THE INVENTION

FIELD OF THE INVENTION

5 The present invention relates to an automatic ordering method and system for trading of stocks, bonds, items, futures, options, indexes, foreign currencies through data communication network, and more particularly to an automatic ordering method and system by way of computer according to a predetermined condition set by an investor.

10 Known are the method and system for trading articles such as stocks, foreign exchanges, cereals, ores, futures and the like. In the conventional method and system, an investor inputs into a computer desired purchase (or selling) price and desired purchase (or selling) quantity of certain articles, securities, foreign exchanges or indexes to generate a trade order and to
15 conclude a trade. In this regard, trade method of articles, foreign currency exchanges, securities, indexes and the like through a computer network is the same as the current stock trade method through a computer network, such that the present invention will be described hereinafter with reference to a stock trade by way of example.

20 With reference to the stock trade as an example, the present invention relates to a method and a system, where a user pre-set a trade condition for purchase or selling order for a particular stock, and a computer places an automatic purchase or selling order according to the trade condition.

25 It has been a general practice for a stock holder to directly order a selling or buying of a stock at a securities company or to commission an employee at a securities company to order a selling or buying of a stock under

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his or her own decision. When a stock holder intends to order a selling or buying of stock, he or she visits a securities company in person, calls the company, uses a radio communication terminal provided by the company, utilizes a personal computer communication network system or uses an internet.

Now, recent stock trade method at a stock exchange market (SEM) and some of the terminologies in relation to stock trade are briefly described using the example of Korea Stock Exchange (KSE).

As of February 1999, a stock price is based on a closing of a previous day and can rise or fall within a range of 15% thereof. The KSE opens at 9 in the morning during workdays except for holidays, weekend and yearend, and closes at 3 in the afternoon. A "daily upper limit" in the stock dealing means a price 15% soared above the closing price of the previous day and a "daily lower limit" defines a price 15% declined based on the closing price of the previous day.

Purchase and sale of a stock are made from 9 a.m. when the stock market opens to 3 p.m., but orders for stock dealing can be reserved even from 5 p.m. to before 9 a.m. the following day after the market is closed in case a communication by computer, ARS, Internet and the like are utilized.

Referring to Figure 1, a buying and selling method of stocks after order thereto is given utilizing the communication by computer or Internet is described hereinafter.

A stock holder uses his or her computer system to connect same to a computer system 2 of a securities company the stock holder deals with, and to confirm a balance of an account, residual quantity of stocks, present price or closing price of his or her present stock. Then when the stock holder orders

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a buying or a selling of a particular stock, the order is recorded in the computer system of the securities company, which is then transferred to a computer system 30 of the KSE after a usual procedure necessary for the sale and purchase of the stock dealings is processed in the securities company.

- 5 When the order of sale and purchase is received via a network 40 from the securities company, the computer system 30 in the KSE compares selling order price and quantity and buying order price and quantity and allows a purchase and sale to be concluded at a particular price.

- 10 Generally, this kind of buying and selling is repeated from opening to closing of the stock market. This kind of method is similarly performed when the stock holder visits the securities company. Only difference is that a step is deleted where a stock holder utilizes his or her computer system 10 to input a particular data.

- 15 In order to contract this kind of deals, whether the deal is a purchase order or a sale order, an item code of a stock to be bought or sold, desired purchasing or selling price, desired purchasing or selling quantity and the like should be input via a computer or ARS by a stock holder or a staff at the securities company.

- 20 Under the stock dealing method thus described, a predetermined fundamental information data (by way of example, stock account, secret number, etc) and buying/selling condition information data (by way of example, stock item code, desired buying/selling prices, desired buying/selling quantity, etc) should be input via the computer system 10 or 20 by a stock holder or staff at the securities company at every dealing time
25 point. Furthermore, in order to place a buying or selling order corresponding to a particular purchase or sale, buying or selling contract details at every moment should be monitored and an order corresponding thereto should be

timely placed.

However, there is a problem in these types of behaviors in that lots of time are consumed and people who are busy at offices and who can hardly spend time at securities company cannot cope therewith.

5 There is another problem in that staff at the securities company spend too much time in placing every buying or selling order, in the view point of the securities company, too much personal expenses are spent, and if there is any erroneous input of necessary information data due to erroneous typing and the like, the securities company is compelled to sustain a large amount of
10 economic loss.

Meanwhile, many stock investors are thinking about provisional desired purchase price, purchase quantity, desired selling price and selling quantity of particular stock in which they intend to invest. However, in order to comprehend whether the current price of the stock has reached a desired
15 purchase or selling price, they should be always aware of the stock price change at the stock market. However, it is not that easy to constantly observe the changing stock prices.

SUMMARY OF THE INVENTION

The present invention is disclosed to solve the aforementioned
20 problems and it is an object of the present invention to provide an automatic ordering method and system for allowing an investor to invest without concerning himself or herself about stock market change and new information.

The present invention also provide an automatic ordering method and system adapted to repeatedly place purchase and selling orders according to
25 predetermined conditions on behalf of investors including individual investors and institutional investors.

In accordance with one object of the present invention there is provided an automatic ordering method, the automatic ordering method for trading of stocks, bonds, items, futures, options, indexes, foreign currencies and the like through data communication network comprises the steps of:

- 5 determining a trade-desired object and inputting an automatic trade condition containing purchase and selling conditions in a computer system;
- issuing purchase and/or selling order(s) according to the automatic trade conditions through the data communication network;
- discriminating whether the purchase order and/or selling order has
- 10 been contracted through the data communication network; and
- placing new purchase and/or selling order(s) by the computer through the data communication network according to the automatic trade conditions when either the purchase order or the selling order is contracted.

In accordance with another object of the present invention, there is

15 provided an automatic stock ordering method using a computer system connected to a data communication network, the method comprising the steps of:

- determining a trade-desired stock and inputting an automatic trade condition including purchase and selling conditions at the computer system;
- 20 placing through the data communication network a stock purchase order or stock selling order according to the trade condition;
- discriminating whether or not the stock selling order or stock purchase order has been contracted through the data communication network; and
- placing by a commuter through the data communication network a
- 25 new stock selling or purchase order according to the automatic trade condition when the stock selling or purchase order is contracted.

In accordance with still another object of the present invention, there is provided an automatic stock ordering method, the method of trading stocks using a computer system connected to data communication network, the

method comprising the steps of:

determining a trade-desired stock and inputting an automatic trade condition including a purchase condition and a selling condition in the computer system;

- 5 placing through the data communication network one or more than one stock selling order(s) and one or more than one stock purchase order(s) according to the trade condition;

discriminating whether or not the stock selling or purchase order has been contracted through the data communication network; and

- 10 placing by the computer through the data communication network new stock selling and purchase orders according to the automatic stock trade condition when the stock selling or purchase order is contracted.

- In accordance with still further object of the present invention, there is provided an automatic ordering system of stocks, the stock ordering system
15 including a user computer system connectable to a computer system at the Korea Stock Exchange through a data communication network, the system comprising:

- a user interface at the user computer system;
- a memory device for storing a basic information data including item
20 code of stock and account number of a stock holder input to the computer system through the user interface;
- a trade condition control module for storing automatic stock trade condition data containing desired selling price, desired selling quantity, desired purchase price, desired purchase quantity for trade of the stock input
25 to the computer system through the user interface; and
- a trade order control module for discriminating whether the automatic stock trade condition has been met and for placing a stock trade order

according to the automatic stock trade condition through the data communication network if the condition is met.

BRIEF DESCRIPTION OF THE DRAWINGS

For fuller understanding of the nature and objects of the invention,
5 reference should be made to the following detailed description taken in conjunction with the accompanying drawings in which:

Figure 1 is a conceptual drawing of a stock dealing system via a network;

Figure 2 is a conceptual block diagram for illustrating an embodiment
10 of an automatic ordering system of stock dealings according to the present invention;

Figure 3 is a flow chart for illustrating the first and the second
embodiments of an automatic ordering method of stock dealings according to
the present invention;

15 Figure 4 is a user interface for illustrating the first and the second
embodiments of an automatic ordering method of stock dealings according to
the present invention;

Figure 5 is a flow chart for illustrating the third and the fourth
embodiments of an automatic ordering method and system of stock dealings
20 according to the present invention;

Figure 6 is a user interface for illustrating the third and the fourth
embodiments of an automatic ordering method and system of stock dealings
according to the present invention; and

25 Figure 7 is an automatic trade table generated by the third and the
fourth embodiments according to the present invention.

DETAILED DESCRIPTION OF THE INVENTION

Preferred embodiments of the present invention will now be described

in detail with reference to the accompanying drawings.

Figure 2 is a conceptual block diagram for illustrating a first embodiment of an automatic ordering system of stock dealings or stock trade according to the present invention.

5 In other words, an automatic ordering system of stock dealing according to the present invention (hereinafter referred to an "automatic ordering system") can be embodied, as illustrated in Figure 1, by user computer system 10 (hereinafter referred to as "user 's computer"), a computer system of securities company 20 and a computer system of SEM
10 30 mutually connected for performing data communication via a network 40.

Furthermore, the user computer 10, where an automatic ordering system according to the present invention can be embodied, includes a user interface 12 for interfacing with a stock holder, a trade (deal) condition control module 16 for storing information on a stock holder (by way of example,
15 name, quantity, and purchasing price of possessed stock, and available balance and automatic trade conditions established by the stock holder and for revising to a new stock dealing condition according to user manipulation or concluded deal state, and a trade order control module 14 for issuing a dealing order of concerned stock according to the automatic trade conditions.

20 Of course, the user computer 10, although not illustrated in Figure 2, further includes softwares such as operation system necessary for operation of the computer system and various applications and hardwares such as central processing unit and hard disks. The user computer still further includes hardwares (not shown) such as a modem, a LAN adapter for
25 executing a data communication with the computer system 20 at a securities company or with the computer system 30 at the SEM and softwares such as data communication control application and the like, and all these are

generally called as a communication control module (not shown).

5 The computer system 20 at the securities company, connected to the user computer 10 via the network 40 in order to perform a data communication, includes an administrator's interface 22 for interfacing with an administrator of the securities company, a deal (trade) performing module 24 for receiving an order from the user computer 10 and transmitting same to the computer system 30 at SEM to thereby allow a stock dealing to be concluded, and an account control module 26 for storing a useable balance and stock residual quantity of stock account of a particular stock holder and
10 for amending same according to contracted dealings.

It should be also noted that the computer system 20 at the securities company is further disposed with hardwares and softwares for executing a general function as a computer system, quite similar to those of the user computer 10.

15 Part or whole of modules 14 and 16 of the user computer 10 may be integrated to a computer system 20 of a securities company. Construction may be made such that a user is simply connected to a company of a securities company through the user interface 12. Furthermore, in a country where it is legally allowed for a user to directly connect to a computer system
20 30 of a stock market in placing a stock trade order, the computer system 20 of a securities company may be integrated to the user computer 10.

In case a securities company invests in a stock on behalf of a client, hardward and software resources of the user computer 10 are integrated to the computer system 20 of the securities company.

25 Next, the computer system 30 at the SEM is provided with an administrator interface 32 for interfacing an administrator of the SEM, a deal

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(trade) conclusion control module 34 for receiving and comparing a purchase order and a selling order from each computer system 20 at every securities company to thereafter conclude the dealings and a stock price control module 36 for correcting the stock price according to the concluded stock quantity and price. The computer system 30 at the SEM further includes softwares and hardwares for performing a general function as a computer system, quite similar to those of the user computer 10 or computer system 20 at the securities company.

Each module illustrated in Figure 2 performs a mutual data communication within a computer system each module belongs to, and a data communication is executed via the data communication control module even among the modules included in other computer systems. Data flow and connecting relation according to performance of these data communication are schematically illustrated by two-way arrows in Figure 2. Although Figure 2 illustrates a block diagram where the user computer 10 is directly connected to the computer system 30 of the SEM, it should be noted that the direct connection is not indispensable but the user computer 10 may be connected only to the computer system 20 of the securities company. Hardwares and softwares for accomplishing the data communication are well known to a person who has ordinary knowledge in a technical field to which the present invention belongs (hereinafter referred to as "a person skilled in the art"), and detailed description of the hardwares and softwares will not be made here as they are not directly necessary matters in describing subject matters of the present invention.

It is an easy matter for a person in the art to adequately arrange or change computer system resources between the user computer 10, computer system 20 of a securities company and computer system 30 of KSE. Accordingly, it should be noted that Figure 2 is just shown for illustrating one embodiment and a system for embodying the present invention may be

variably modified by a person in the art.

Next, embodiments of the automatic stock ordering method and system will be described in detail with reference to Figures 3, 4, 5, 6 and 7.

Figure 3 is a flow chart for illustrating a first embodiment of
5 automatic ordering method according to the present invention.

According to the first embodiment, when the automatic ordering system starts operation, step 300, a basic data including a stock account number, a secret number thereof, name and registration number of stock holder, item code of possessed stock and the like are registered through the
10 user interface 12 of the user computer 10 and are stored. A one-time registration of the basic information data suffices at the initial start of the automatic ordering system and there is no need of additional registration unless the basic information data is to be amended.

Next, the stock holder establishes an automatic trade condition for
15 selling and purchasing certain items of stocks, step 302. A user interface as shown in Figure 4 may be provided to the user to expedite the establishment of the automatic trade condition.

A item code selection button 401 in Figure 4 is selectively provided to search or select a share to invest in. In order to select a stock of ABC
20 company 403 as investment item, an item code of the ABC company 403, by way of example, '00660' 402 may be selected or input. A referral button 404 of share price of previous day may be selectively provided. An amount to be used for automatic trade is entered in an amount entry column 405. The entry amount should not necessarily accord with remainder in the stock account.
25 When there remains possessed stocks to be automatically traded, the number of stocks to be automatically traded are entered in a column 406. The number

of stocks entered into the column 406 should not be necessarily the whole possessed stocks.

Establishment of initial trade condition is not part of the present invention. The initial trade condition is the same as the method and system
5 provided for cyber stock investors by the current securities companies. A referral button 407 of current share price is a selective item.

Column 408 is a button for selecting purchase or selling. The present example has established an initial trade where 100 shares 410 of ABC company are purchased 408 at 25,000 Korean Won per share.

10 The automatic trade condition is based on a presumption that an initial trade will be contracted. In order to set up an automatic trade condition, columns 412 and 422 for selecting selling or purchase, columns 414, 418, 424 and 428 for selecting unit price and quantity at fixed quantity or fixed rate, and columns 416, 420, 426 and 430 for entering the unit price or
15 quantity at fixed quantity or fixed rate are provided.

The present example as a first automatic trade condition has established a selling 412 of 100 shares 420 purchased at the initial trade at 27,000Won per share.

A second automatic trade condition based on the contract of the first
20 condition is established at purchase 422 more increased in quantity 428 and 430 by 200% and lower unit prices 424 and 426 by 20% than those of the first trade. In other words, the condition is buying 200 stocks at 21,600Won per share.

These kinds of automatic trade conditions may be established up to
25 an appropriate number, by way of example, up to a fifth condition or up to a tenth condition, in the same method. The automatic trade condition is

confirmed by pressing a confirmation button 432. However, the automatic trade condition is allowed to be changed or amended at all times by a user.

5 A selling order according to the predetermined first condition is generated by computer regardless of the current share price right after the initial trade is contracted. In other words, a discrimination is made at step 306 in Figure 3 as to whether the automatic trade condition is a purchase or a selling, and if the condition is established as selling as illustrated in Figure 4, flow advances to step 310 to discriminate whether the selling condition has been met. The discrimination of the selling condition is a discrimination as to
10 whether established selling quantity of share is possessed, or whether a designated selling price is within an allowable trade range (i.e., daily upper limit and daily lower limit).

If the condition is met, a selling order is automatically generated by computer, step 316, and the computer discriminates whether the selling order
15 is contracted, step 318.

If the selling order is not contracted on the same day, same order is generated by computer every day until the selling order is concluded. If the order is contracted, the account remainder and share residual quantity are amended, step 320, and the computer discriminates whether or not the
20 condition is met according to the previously set-up second automatic trade condition. If the second condition is met, a new order is immediately generated. In other words, as soon as the first a trade is concluded, a second trade order is actually created. A stock trade order is automatically generated by the computer as much as the automatic trade condition is established
25 according to this method. When the established automatic trade conditions are all concluded, automatic trade is stopped. In the present invention, completion of the automatic trade is advised to a user by an appropriate method. This method may include beeper, E-mail, cellular telephone or the like.

This notifying method can be realized by well-know technologies.

The first embodiment includes a step 304 for receiving the closing price of previous day and a step 312 for notifying an error when the purchase or selling condition is not met at steps 308 and 310.

5 A discrimination should be made as to whether established trade price is within the daily upper limit or daily lower limit when the stock trade order is placed only within the limits as in Korea, and if the order is placed out of the limits, errors 312 are created. Furthermore, in case only partial quantity of trade order is concluded, or trade is fulfilled at a price different from trade
10 order price (Handling of this case will be described later), an instance can occur where account remainder and stock residual quantity remain against anticipation to thereby generate an error.

 If an error happens, the automatic trade is stopped and generation of error is advised to a user by an appropriate method. When the error is notified,
15 the user may change or amend the automatic trade condition to thereafter process the automatic trade continuously.

 According to the first embodiment, it is possible for the user to perform the trade of shares as desired without continuously monitoring changes of the stock market.

20 Step 304 in Figure 3 at the second embodiment of the present invention includes a step for receiving the closing price of the previous day and the present price of concerned stock as well for comparison with the automatic trade condition. There is a disadvantage in the first embodiment in that, when a stock trade order is created regardless of the current price or
25 invested money is too much, an investment strategy may be exposed to other investors. The second embodiment therefore makes the stock purchase order

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or selling order generated when the present price at the stock market reaches an established price of established automatic trade condition, or makes the stock selling order created when the present price is lower by a predetermined percentage (by way of example, 5%) than established automatic selling price, 5 or makes the stock purchase order created when the current price is higher by a predetermined percentage (by way of example, 4%) than established automatic purchase price.

The second embodiment can be embodied by additionally providing at the automatic trade condition establishment column of Figure 4 an 10 establishment column for limiting a generated period of time of the trade order, and by comparing the current price with trade order generation time condition established at steps 308 and 310 in Figure 3. Under these circumstances, if the time condition is not met, steps 308 and 310 should be continuously checked until the time condition is satisfied without creating an 15 error 312. The time condition comparison means according to the second embodiment may be utilized by a known art to integrate a trade order control module 14 and a trade condition control module 16 in Figure 2.

Now, a third embodiment of the present invention will be described with reference to Figures 5, 6 and 7. At though the first and second 20 embodiments is characterized in that either the purchase order or selling order is automatically created according to established automatic trade condition, the third embodiment of the present invention is characterized in that both the purchase order and selling order are simultaneously generated according to the established automatic trade conditions as described later.

25 As illustrated in Figure 5, a system is activated, step 500, according to the third embodiment to set up an automatic trade condition, step 502.

The automatic trade condition may be established by providing an

interface to a user as exemplified in Figure 6. Remaining portions except the automatic trade condition set-up unit in Figure 6 are the same as those indicated in reference numerals 401 through 410 in Figure 4.

- However, in the present embodiment, an example is given as
- 5 possessing 10,000 shares of DEF company and selling 100 shares of DEF company at 10,000Won per share.

- A standard quantity 602 in the automatic trade condition establishes a standard selling and purchase at every automatic trade. Fee rates (and tax) of securities company to be paid at the share trading are entered into a column
- 10 604, which is not essential but conducive to calculation of profits after the stock trading. Purchase price and selling quantity of automatic trade are established at columns 606, 608, 610 and 612. The purchase price may be established at a predetermined lower price or at a predetermined lower rate than the selling price at every trading.

- 15 An automatic purchase price lower by 500Won than the selling price is established at every trading in Figure 6.

- Furthermore, automatic purchase quantity may be established at a fixed rate or at a fixed quantity in column 610. If the column 612 is blank, the automatic purchase order at every trading is 100 shares as the set-up
- 20 standard quantity 602. Plus(+) and minus(-) symbols may be used in column 612, and in case of using plus(+), the automatic purchase order quantity is increased by a fixed rate or fixed quantity, and in case of using minus(-), the automatic purchase order quantity is decreased by a fixed rate or by fixed quantity.

- 25 The automatic selling condition is also set up in columns 614, 616, 618 and 620 in the same manner as above. The present embodiment is

established as automatically selling 100 shares at a price more increased or more decreased by 1,000Won than the initial selling price at every trading. An extra trade condition may be established at a fixed rate or at a fixed quantity in columns 622 and 624. The extra trade condition will be further described
5 later.

The user may establish a target profit or earning rate at column 626. If the target profit rate is not set-up, the automatic trading continues unless stopped by the user. However, it is easy for the computer to calculate an earning rate at every automatic trading, and it is preferable to automatically
10 stop the automatic trading when a certain profit rate is earned.

The user may use a trade table application button 628 to draw up an automatic trade table as shown in Figure 7. However, the automatic trade table can be imaginary, so that make-up of visual table is selective. In other words, the system according to the present invention can realize the third
15 embodiment of the present invention just by storing a formula or logic for drawing up the automatic trade table 700.

The automatic trade table 700 in Figure 7 is made according to the automatic trade establishment condition in Figure 6.

The automatic trade table 700 is made such that each selling price in
20 selling row 714 is less by 1,000Won at each line thereof while each purchase price at each purchase row 712 is less by 500Won than each corresponding line of selling price.

On the automatic trade table 700, prices in the same lines as in 702 through 710 are appropriately adjusted up and down on the basis of the initial
25 trade price.

Unlike the example in Figure 6, in case the trade condition is

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determined at a fixed rate of percentage, purchase price or selling price of the trade table or order quantity may be created in decimal points. However, the KSE has stipulated that shares should be traded on a 50Won unit base in case a share price is ranged between 10,000Won to 50,000Won, to thereby limit
5 units of trade price and quantity, and if the stipulation cannot be observed, share price is changed to an approximate one or rounded to amend the trade table.

In most of cases, the trade table is adjusted to an approximate price to cater to trade regulations of each country, which can be automatically
10 performed by computer, each column in the trade table is allowed to be amended in order quantity, selling price or purchase price as a user desires. Figure 7 is an example not amended or changed. The trade table 700 is confirmed by a trade table confirmation button 716 pressed by a user.

With reference to Figure 5, as soon as an initial selling succeeds, a
15 first automatic purchase order and automatic selling order are created by the automatic trade table according to the automatic trade condition previously set up, step 512. In the third embodiment, it is designed "to buy the same stock at a lower price and to sell at a higher price". Accordingly, when an initial selling order is concluded, a purchase order at a price just below the
20 contracted initial selling price (10,000Won) (i.e. purchase of 100 shares at a purchase price of 9,500Won) is placed (see line 706 in Figure 7), and a selling order at a price just higher than the contracted selling price (i.e. selling of 100 shares at a selling price of 11,000Won) is placed (see selling column at line 704 in Figure 7).

25 These selling and purchase orders are within the account balance and possessed number of shares, such that no errors are generated at steps 506 and 508.

When a purchase order is contacted as ordered in a first automatic trade order, a purchase order and a selling order approximate to the order price contracted in the automatic trade table 700 are generated. As previously mentioned the third embodiment is so designed as to buy "at a lower price" than just-contracted price "and sell at a higher price", such that a second automatic trade order is created through steps of Figure 5 (steps 514, 516, 506 and 508) where a purchase order (100 shares purchased at 8,500Won, see line 708 in Figure 7) and a selling order (100 shares sold at 10,000Won) are placed.

When a selling order is concluded at the second automatic trade order, a purchase order (100 shares bought at 9,500Won) close to contracted order price (10,000Won at the second order) and a selling order (100 shares sold at 11,000Won) are automatically generated at the third automatic order. In order words, each automatic trade order generates a purchase order at a price just lower than the contracted price at the automatic trade table 700 and a selling order just higher than the contracted price.

When an automatic trade is performed according to the third embodiment, a certain profit is created in case the share price vertically fluctuate around a price range of the initial trade price. By way of example, in case a share price in Figure 7 rises from 10,000Won to 14,000Won and drops to 10,000Won, a predetermined earning is generated. Furthermore, even in case a share price drops from 10,000Won to 4,000Won and rises to 10,000Won, a certain profit is gained. As apparent from this, the third embodiment may be an appropriate investment method for a stock where a share price thereof frequently and vertically fluctuates at a certain price range.

The extra trade condition in Figure 6 may be established to increase a selling quantity and purchase quantity in case an automatic trade is again generated at the same price after the automatic trade is initiated, in other

words, in case a purchase order and selling order are twice generated at the same price according to fluctuation of the share price.

Referring to Figure 5 again, a discrimination is made as to whether a purchase condition and a selling condition are met by comparing the established automatic trade condition with balance of securities account and possessed stocks, steps 506 and 508. In order to buy stocks, at least more money should remain in the account than established purchase quantity multiplied by established purchase price, and in order to sell, at least more stocks are possessed than the desired selling quantity. In case only purchase is continuously contracted by the automatic trade, possessed balance in the securities account may be drained out, and in case only selling is continuously concluded, a case may occur where possessed stocks are drained out.

In case steps 506 and 508 are met, the automatic trade purchase order and selling order are simultaneously generated, step 512, and in case the steps 506 and 508 are not satisfied, an error occurs, and the occurrence of error is notified to the stock investor by an appropriate method, step 510.

By way of example, the occurrence of error may be so established that an error message is displayed on the user interface or an alarm sound may be generated. Furthermore, a system may be so constructed as to notify to the stock investor by way of wire, wireless or pager when an error happens. These kinds of error notifying methods may be realized by known arts.

As mentioned above, in case steps 506 and 508 are satisfied, stock purchase order and stock selling order are created, step 512. At this time, it should be noted that the purchase order and selling order are generated at the same time.

The third embodiment is quite different in this regard from the

conventional stock investment method. In the third embodiment, the current share price is disregarded and price change of stocks is not anticipated at all.

According to the third embodiment, a certain quantity is purchased when a share price drops compared with previously bought share price and
5 when the share price rises compared with the previously purchase share price, a certain quantity is sold.

A discrimination is made as to whether or not a trade is contracted at step 514. The contracted trade order may be either a selling order or a purchase order, or neither order can be contracted. In case both orders are
10 not contracted, same purchase order and selling order are created on the next day. Exceptional cases such as partial contract, a contract with a price different from an order price and the like may occur. In case of partial contract, whole order quantity may be considered as contracted, or a selling order and purchase order of the same price for the stocks not contracted may
15 be generated.

Furthermore, in case a contract is made at a price different from the order price, a purchase order just below a contracted price and a selling order just above the contracted price are created.

Whichever order is concluded, account balance and stock remainders
20 are revised, step 516, and if condition is met according to the automatic trade condition pre-set up at steps 506 and 508, a new purchase order and a new selling order are immediately generated.

In the third embodiment, a closing price is received from the computer system 20 or the KSE computer system 30, step 504 to use same as a
25 discriminating reference of purchase condition and selling condition. In case ex-dividend or the like occurs, cases may occur where reference price is

different from the closing price of previous day. Furthermore, many exceptional circumstances such as reduction of capital, stock split, consolidation in par value and the like can happen in the stock market and when these cases happen, it is necessary to automatically stop the automatic trade by way of system.

A fourth embodiment of the present invention is a variation of the third embodiment and is characterized in that at least two or more than two purchase orders and at least two or more than two selling orders are simultaneously created. In case there occur a large volume of purchase orders or selling orders in the stock market, trade orders in various price ranges are concurrently concluded to rapidly and broadly change the stock prices.

In case three selling orders and three purchase orders are set up to be simultaneously generated in the fourth embodiment, three selling orders, each above 10,000Won based on initial contract price of 10,000Won, (i.e., 100 shares sold, each at 11,000Won, 100 shares sold, each at 12,000Won and 100 shares sold, each at 13,000Won) and three purchase orders, each below 10,000Won of initial contract price (i.e., 100 shares bought, each at 9,500Won, 100 shares bought, each at 8,500Won and 100 shares bought, each at 7,500Won) are concurrently created, as in Figure 7.

If any one of the six orders is contracted, balance of five orders is immediately cancelled the moment above one contract is concluded, and as automatic trade orders thereafter, one purchase order and one selling order corresponding to the contract in the third embodiment are created. The fourth embodiment is particularly useful to reserve orders before the stock market is open and after the stock market is closed. The fourth embodiment may be embodied by additionally providing a column for limiting the number of plural orders in the automatic trade condition of Figure 6.

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The first, second, third and fourth embodiments according to the present invention are embodied by the system illustrated in Figures 1 and 2. Information received from the computer system 30 of KSE or other computer (not shown) connected to Internet is compared with automatic trade condition

5 priorly set up by a user according to the trade condition control module 16 to discriminate whether or not purchase condition and/or selling condition are/is satisfied. As a result of the discrimination, if the condition(s) is(are) met, a selling order and/or purchase order are(is) placed with the trade performing module 24 of the computer system 20 at the securities company according to

10 the trade order control module 14.

This kind of discrimination and trade order is repeatedly executed, with receipt of a market information on real time from the activated start of automatic order system such that the trade orders are placed several times in a day. Once the trade order is placed by the trade order control module 14,

15 the account control module 26 discriminates whether account balance and remaining stocks are not out of limit, and the trade order is, once placed, transmitted to the computer system 30 of KSE by the trade performing module 24.

The trade conclusion control module 34 at the computer system of

20 KSE receives the order to compare same with trade order of other securities companies, and if an appropriate price is formed, the trade is accomplished where the trade contract is notified to the trade performing module 24. The trade performing module 24 again notifies the contracted price and quantity to the account control module 26 and the trade condition control module 14,

25 against which the account control module 26 rectifies the balance and remaining quantity, where the trade condition control module 14 separately stores the actually contracted trade condition and amends the trade condition according to the user instruction or set-up state.

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Although the present invention has been described with reference to specific embodiments, the invention is not intended to be limited to the embodiments disclosed, which are considered to be purely exemplary. Although the above embodiment has described a desired purchase price, 5 selling price and trade quantity as automatic trade condition of stocks, other conditions such as increase/decrease of composite share index, increase/decrease of stock trade volume, technical index and the like may be established as automatic trade condition.

Furthermore, although the present invention has described about 10 stocks, bonds, future, options, foreign current exchanges, grains, minerals, index swaps and the like which are traded in the similar manner as stocks may be applied.

As apparent from the foregoing, there is an advantage in the automatic ordering method and system for trading of stocks according to the present 15 invention thus described in that an investor can reduce loss of time consumed for monitoring stock market situation or for input of orders, while securities company can decrease time and cost for inputting and managing the trade orders.

There is another advantage in that a possibility of erroneously 20 inputting data necessary for stock trade orders can be fundamentally ruled out to thereby prevent investment loss resulted from the erroneous input.

WHAT IS CLAIMED IS:

1. An automatic ordering method, the automatic ordering method for trading of stocks, bonds, items, futures, options, indexes, foreign currencies and the like through data communication network comprises the steps of:

- 5 determining a trade-desired object and inputting an automatic trade condition containing purchase and selling conditions in a computer system;
 issuing purchase and/or selling order(s) according to the automatic trade conditions through the data communication network;
 discriminating whether the purchase order and/or selling order has
10 been contracted through the data communication network; and
 placing new purchase and/or selling order(s) by the computer through the data communication network according to the automatic trade conditions when either the purchase order or the selling order is contracted..

2. An automatic ordering method, the method using a computer system
15 connected to a data communication network, the method comprising the steps of:

- determining a trade-desired stock and inputting an automatic trade condition including purchase and selling conditions at the computer system;
 placing through the data communication network a stock purchase
20 order or stock selling order according to the trade condition;
 discriminating whether or not the stock selling order or stock purchase order has been contracted through the data communication network; and
 placing by a commuter through the data communication network a new stock selling or purchase order according to the automatic trade
25 condition when the stock selling or purchase order is contracted.

3. The method as defined in claim 2, wherein the automatic ordering condition comprises one of desired selling price/selling quantity or desired purchase price/purchase quantity.

4. The method as defined in claim 2 or 3, wherein the automatic ordering condition further comprises a condition for limiting an order timing, and the step of placing a selling order or purchase order further includes a step of comparing the present price with a set-up selling price or purchase price before placing an order.

5. An automatic stock ordering method, the method of trading stocks using a computer system connected to data communication network, the method comprising the steps of:

determining a trade-desired stock and inputting an automatic trade condition including a purchase condition and a selling condition in the computer system;

placing through the data communication network one or more than one stock selling order(s) and one or more than one stock purchase order(s) according to the trade condition;

discriminating whether or not the stock selling or purchase order has been contracted through the data communication network; and

placing by the computer through the data communication network new stock selling and purchase orders according to the automatic stock trade condition when the stock selling or purchase order is contracted.

6. The method as defined in claim 5, wherein the automatic ordering condition comprises a desired selling price, a desired selling quantity, a desired purchase price and desired purchase quantity.

7. The method as defined in claim 5 or 6, wherein the step of inputting the automatic ordering condition further comprises a step of drawing up an automatic trade table, where an automatic trade order is generated from the base of the automatic trade table.

8. The method as defined in claim 5 or 6, wherein the automatic trade condition includes a target profit rate and further comprises a step of calculating a profit rate according to the automatic trading before a computer places a new stock selling order and purchase order in case the stock selling
5 order or a stock purchase order is concluded to thereafter compare same with the target profit rate.

9. The method as defined in claim 8, wherein the automatic ordering condition further comprises an extra trade condition.

10. The method as defined in claim 5 or 6, wherein the step of placing
10 through the data communication network at least one or more than one stock selling and purchase order according to the trade condition further comprises a step of checking whether or not the trade condition has been satisfied before placing an order, and notifying to a user an error if the condition is not met.

15 11. An automatic ordering system of stocks, the system including a user computer system connectable to a computer system at the Korea Stock Exchange through a data communication network, the system comprising:

a user interface at the user computer system;

a memory device for storing a basic information data including item
20 code of stock and account number of a stock holder input to the computer system through the user interface;

a trade condition control module for storing automatic stock trade condition data containing desired selling price, desired selling quantity, desired purchase price, desired purchase quantity for trade of the stock input
25 to the computer system through the user interface; and

a trade order control module for discriminating whether the automatic stock trade condition has been met and for placing a stock trade order according to the automatic stock trade condition through the data

communication network if the condition is met.

12. The system as defined in claim 11, wherein the trade order control module places a new trade order according to the set-up automatic trade condition if a trade is contracted by the stock trade order.
- 5 13. The system as defined in claim 11 or 12, wherein the trade condition control module generates an automatic trade table including at least two or more than two automatic stock trade conditions.

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ABSTRACT

The present invention relates to an automatic ordering method and system for trading of stocks, bonds, items, futures, options, indexes, foreign currencies through data communication network, and more particularly to an automatic ordering method and system by computer according to certain conditions predetermined by an investor wherein the automatic ordering method for trading of stocks, bonds, items, futures, options, indexes, foreign currencies and the like through data communication network according to the present invention comprises the steps of: determining a trade-desired object in a computer system to input automatic trade conditions containing purchase and selling conditions; ordering purchase and selling according to the trade conditions through the data communication network; discriminating whether the purchase order and/or selling order has been contracted through the data communication network; and placing new purchase and/or selling orders through the data communication network according to the trade conditions predetermined by the computer when either the purchase order or the selling order is contracted. (Fig. 3)

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FIG. 1

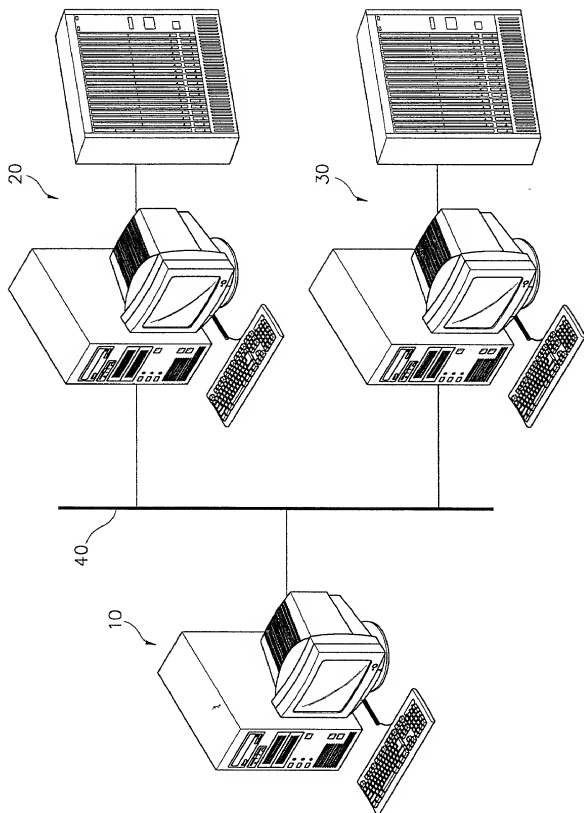


FIG. 2

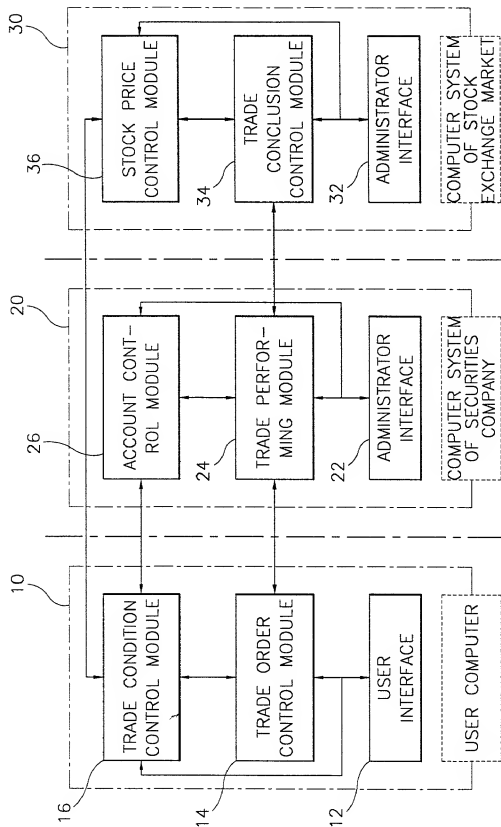


FIG.3

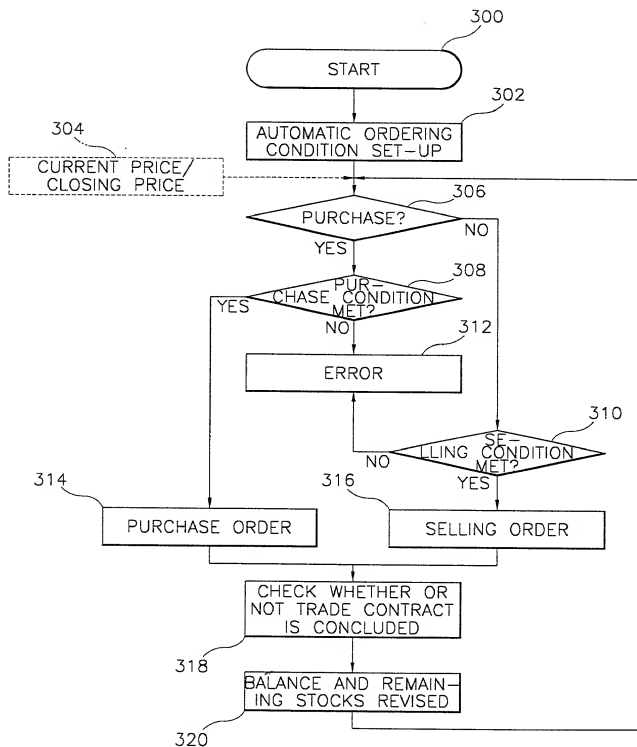


FIG. 4

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401
ITEM CODE
00660
402
INPUT AMOUNT
10,000,000 WON
403
ABC COMPANY
404
CLOSING PRICE
POSSESSED STOCKS
405
406
SHARES

○ INITIAL TRADE CONDITION

407
CURRENT PRICE
408
INITIAL TRADE
PURCHASE
409
25,000 WON
410
100 SHARES

○ AUTOMATIC TRADE CONDITION

FIRST CONDITION
412
SELLING
418
UNIT PRICE
414
FIXED QUANTITY
416
27,000 WON
420
QUANTITY
FIXED QUANTITY
100 SHARES

SECOND CONDITION
422
PURC-HASE
UNIT PRICE
FIXED RATE
-20% WON
426
QUANTITY
FIXED RATE
200% SHARES

THIRD CONDITION
424
428
430
432
CONFIRM

FIG. 5

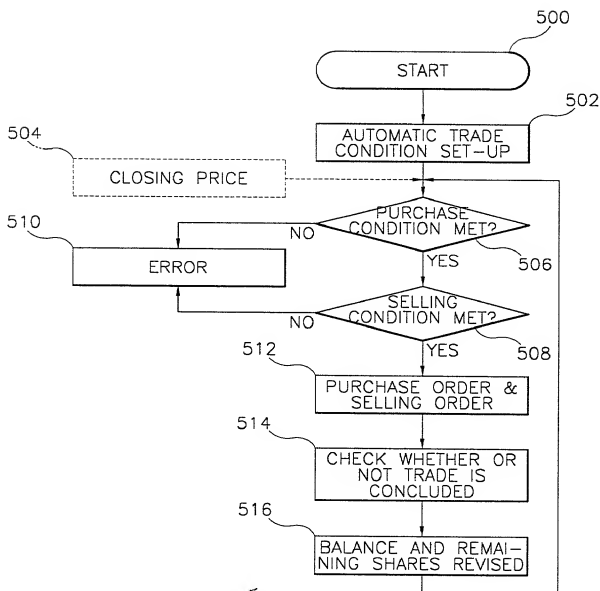


FIG. 6

ITEM CODE	12260	DEF COMPANY	▼	CLOSING PRICE	
INPUT AMOUNT	10,000,000	WON	POSSESSED STOCKS	10,000	SHARES

○ INITIAL TRADE CONDITION

CURRENT PRICE	
INITIAL TRADE	SELLING ▼
	10,000 WON
	100 SHARES

○ AUTOMATIC TRADE CONDITION

		REFERENCE QUANTITY	100	SHARES	FEE	0.25 %
PURCHASE CONDITION	UNIT PRICE	FIXED AMOUNT (WON) ▼	500	WON	QUANTITY	FIXED RATE (%) ▼
SELLING CONDITION	UNIT PRICE	FIXED AMOUNT (WON) ▼	1,000	WON	QUANTITY	FIXED RATE (%) ▼
EXTRA TRADE CONDITION		FIXED RATE (%) ▼		WON	TARGET PROFIT RATE	20 %
TRADE TABLE (APPLICATION)						

FIG. 7

712
AUTOMATIC TRADE TABLE

700

714

PURCHASE		SELLING	
ORDER QUANTITY	PURCHASE PRICE	ORDER QUANTITY	SELLING PRICE
100	13,500	100	14,000
100	12,500	100	13,000
100	11,500	100	12,000
100	10,500	100	11,000
100	9,500	100	10,000
100	8,500	100	9,000
100	7,500	100	8,000
100	6,500	100	7,000
100	5,500	100	6,000
100	4,500	100	5,000
100	3,500	100	4,000
100	2,500	100	3,000
100	1,500	100	2,000
100	100	100	1,000

TRADE TABLE
CONFIRMATION

716

COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

AUTOMATIC ORDERING METHOD AND SYSTEM FOR TRADING OF STOCK, BOND, ITEM,
FUTURE INDEX, OPTION, INDEX, CURRENT AND SO ON.
the specification of which:

☒ is attached hereto.
☐ was filed on _____ as Application No. _____
☐ and was amended on _____ (if applicable)
☐ with amendments through _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Sec. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 (a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Claiming Priority?	
<u>99-6108</u> (Number)	<u>Rep. of Korea</u> (Country)	<u>24/Feb./1999</u> (Day/Month/Year Filed)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<u>99-37343</u> (Number)	<u>Rep. of Korea</u> (Country)	<u>03/Sep./1999</u> (Day/Month/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, Sec. 119(e) of any United States provisional application listed below:

Provisional Application No.

Filing Date

I hereby claim the benefit under Title 35, United States Code, Sec. 120 or §365(c) of any PCT international application designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Sec. 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Sec. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application No.)

(Filing Date)

(Status) (patented, pending, abandoned)

I hereby appoint the following attorneys to prosecute the application, to file a corresponding international application, to prosecute and transact all business in the Patent and Trademark Office connected therewith:

Customer No. 20575

Attorney Name

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Ariel Rogson	43,054

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Min-Ho Cha

Inventor's signature: 차 민호

March 6, 2000

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Inventor's signature: _____

(Date)

Residence:

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I/We, the undersigned, do hereby appoint the above-identified agent as my/our agent to act for me/us in all proceedings concerning the following International Application.

The International Application filed on:

Title of Invention: AUTOMATIC ORDERING METHOD AND SYSTEM FOR TRADING OF STOCK,
BOND, ITEM, FUTURE INDEX, OPTION, INDEX, CURRENT AND SO ON.

Dated this 11th day of January, 2000

Applicant CHA Min Ho

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